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ABSTRACT

Please replace the following paragraph for the abstract now appearing in the currently filed specification:

The present invention is directed to methods of synthesizing nucleic acid oligomers on a solid-phase support having a 3'-end nucleoside unit having a phosphoramidite that is a compound represented by the following formula:

$$\begin{array}{c} 5' \quad \text{Base} \\ O \quad \\ O \quad \\ R_1 \longrightarrow Si \longrightarrow (C_6H_4) \longrightarrow (CH_2)_n \longrightarrow O \longrightarrow P \longrightarrow N \\ Q \quad \\ R_2 \quad \\ R_3 \quad \\ \end{array} \quad (I)$$

wherein represents a nucleoside or its derivative, $-O-(R1)Si(R2)-(C_6H_4)-(CH_2)n-O-P(OR3)N(R4)(R5)$ is attached at the 3' position of a sugar of the nucleoside, each of R1, R2, R4 and R5 is an alkyl or aryl group, R3 is a protecting group, and n is an integer of from 1 to 5. The present invention is also directed to solid-phase supports for use in nucleic acid oligomer synthesis methods, and in some aspects of the present invention, a solid-phase support may be a highly cross-linked polystyrene solid-phase support.